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(54) Pressing assembly of an embossing seal

Pressanordnung einer Prägedichtung

Ensemble de presse pour joint d'étanchéité gaufré

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Description

1. Field of the Invention

[0001] The present invention relates to a pressing assembly of an embossing seal, especially to a pressing assembly that allows a user to hold and to press a die of the embossing seal.

2. Description of the Prior Art(s)

[0002] An embossing seal is commonly used by corporations, government offices, and notary publics. A pressing assembly of the embossing seal typically includes a frame, a handle pivotally coupled to the frame, and a roller coupled to the handle. A die is inserted into the frame and under the roller, and a piece of paper is inserted into the die. When the handle is depressed, it drives the roller down on the die to create a three-dimensional image or design on the paper.

[0003] A conventional embossing seal, such as a SEAL PRESS (U.S. patent with Patent No. 1,471,687), has an operating lever and a seal. The seal is operated or pressed into contact with a sheet or other structure to be operated upon. With pressure distributing or equalizing means, the seal press is adapted to enable the desired uniform pressure to be obtained; and to provide simple and efficient means for locking the operating lever and the die or tool to be operated thereby in closed, folded or collapsed position when the press is not in use. Furthermore, the seal press is also adapted to enable parts of the seal press to be released and operated with facility and in an efficient manner, and to be assembled or taken apart readily and fitted accurately and with facility.

[0004] The present invention is defined by the features presented in appended claim 1. Embodiments of the disclosure set forth a pressing assembly of an embossing seal. The pressing assembly includes a frame, a roller body, and a handle. The frame includes two substantially parallel sides. The roller body includes a roller for pressing down on a die. The pressing assembly further includes a first handle pin pivotally coupling an end of the handle to the sides of the frame, and a second handle pin pivotally coupling the handle to a first end of the roller body. The second handle pin further couples the first end of the roller body to the sides of the frame along a first path. The pressing assembly further includes a roller body pin coupling a second end of the roller body to the sides of the frame along a second path.

[0005] Embodiments of the disclosure set forth a pressing assembly of an embossing seal. The pressing assembly includes a frame, a handle, and a roller body. The handle is coupled by a first pin-in-slot joint to the frame. The roller body includes a roller for pressing down on a die. Two ends of the roller body are also coupled by second and third pin-in-slot joints to the frame.

[0006] The foregoing summary is illustrative only and is not intended to be in any way limiting. In addition to

the illustrative aspects, embodiments, and features described above, further aspects, embodiments, and features will become apparent by reference to the drawings and the following detailed description.

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IN THE DRAWINGS

[0007]

- 10 FIG. 1A is an exploded view of a pressing assembly of an embossing seal;
 FIG. 1B is an assembled view of the pressing assembly of FIG. 1A;
 FIG. 2A is a side view of the embossing seal of FIG. 1B in an initial position;
 FIG. 2B is a side view of the embossing seal of FIG. 1B in an intermediate position; and
 FIG. 2C is a side view of the embossing seal of FIG. 1B in a final position, all arranged in accordance with
 20 some embodiments of the disclosure.

[0008] In the following detailed description, reference is made to the accompanying drawings, which form a part hereof. In the drawings, similar symbols typically identify similar components, unless context dictates otherwise. The illustrative embodiments described in the detailed description, drawings, and claims are not meant to be limiting. Other embodiments may be utilized, and other changes may be made, without departing from the spirit or scope of the subject matter presented here. It will be readily understood that the aspects of the present disclosure, as generally described herein, and illustrated in the figures, can be arranged, substituted, combined, and designed in a wide variety of different configurations, 30 all of which are explicitly contemplated and make part of this disclosure.

[0009] In one or more embodiments of the present disclosure, a pressing assembly of an embossing seal includes a handle, a roller body, and a frame. The handle is pivotally coupled to the frame and linked to one end of the roller body. The handle can also contact another end of the roller body. When the handle is depressed, it pushes down on the two ends of the roller body and the roller body presses down on a die to make a three-dimensional 40 image or design on a piece of material.

[0010] FIG. 1A is an exploded view of a pressing assembly of an embossing seal, and FIG. 1B is an assembled view of the pressing assembly, in accordance with one or more embodiments of the disclosure. The pressing assembly includes a frame 10, a handle 30, and a roller body 40. The roller body 40 generally fits in a front end of the handle 30, and the front end of the handle 30 with the roller body 40 generally fits in a front end of the frame 10.

[0011] The frame 10 includes two parallel vertical sides 101 and 103. The sides 101 and 103 define a first pair of symmetrical frame slots 13, a second pair of symmetrical frame slots 14, a third pair of symmetrical frame slots

15, and a pair of symmetrical frame holes 16. The frame slots 13, 14, 15 and frame holes 16 are generally located along the length of the frame 10 from the front end to a back end of the frame 10.

[0012] The roller body 40 includes two parallel vertical sides. The sides define a first pair of symmetrical roller body holes 42, a second pair of symmetrical roller body holes 44, and a pair of symmetrical roller body slots 46. The roller body holes 42, 44 and the roller body slots 46 are generally located along the length of the roller body 40 from a front end to a back end of the roller body 40. A roller pin 45 secures a roller 43 to the roller body 40 through the second pair of roller body holes 44.

[0013] A roller body pin 53 is inserted through the third pair of frame slots 15 and the roller body slots 46 to couple a mid portion of the frame 10 to the back end of the roller body 40, thereby forming a pin-in-slot joint between the mid portion of the frame 10 and the back end of the roller body 40. When the handle 30 is depressed to press down on the roller body pin 53, the back end of the roller body 40 moves along a path defined by the third pair of frame slots 15 and the roller body slots 46. In some implementations, the third pair of frame slots 15 are curved diagonally, the roller body slots 46 are linearly horizontal, and two ends of each roller body slot 46 respectively extend toward the two ends of the roller body 40.

[0014] The handle 30 defines a first pair of symmetrical handle holes 32 and a second pair of symmetrical handle holes 34. The handle holes 32 and 34 are generally located along the length of the handle 30 from the front end to a back end of the handle 30. A first handle pin 55 pivotally couples the front end of the handle 30 to the front end of the frame 10 through the first pair of handle holes 32 and the first pair of frame slots 13, thereby forming a pin-in-slot joint between the front end of the handle 30 and the front end of the frame 10. When the handle 30 is depressed, the front end of the handle 30 moves along a path defined by the first pair of frame slots 13. In some implementations, the first pair of frame slots 13 are linearly horizontal, and two ends of each frame slot 13 respectively extend toward the two ends of the frame 10.

[0015] A second handle pin 51 pivotally couples the front end of the handle 30 to the front end of the roller body 40 through the second pair of handle holes 34 and the first pair of roller body holes 42, thereby forming a pin joint between the front end of the handle 30 and the front end of the roller body 40. The second handle pin 51 further couples the front end of the roller body 40 to the front end of the frame 10 through the first pair of roller body holes 42 and the second pair of frame slots 14, thereby forming a pin-in-slot joint between the front end of the roller body 40 and the front end of the frame 10. When the handle 30 is depressed, the front end of the roller body 40 moves along a path defined by the second pair of frame slots 14. In some implementations, the second pair of frame slots 14 are linearly diagonal.

[0016] The first handle pin 55, the second handle pin

51 and the roller body pin 53 may have grooves, so they may be secured by retaining rings or circlips 61, 62, and 63, respectively. In some implementations, two ends of the first handle pin 55 may be secured by additional retaining rings or circlips 64.

[0017] The pressing assembly further includes a frame pin 57. The frame pin 57 is inserted through and secured to the frame holes 16.

[0018] In operation, a die 20 is inserted into a front opening defined by the sides 101 and 103 of the frame 10. The die 20 may include an upper die 21 and a lower die 22. The upper die 21 is positioned under and in contact with the roller 43. The lower die 22 is seated against a bottom of the front opening provided by the sides 101 and 103 of the frame 10. When the handle 30 is depressed, the roller 43 presses the upper die 21 down on the lower die 22 to form a three-dimensional image or design on a material disposed between the upper die 21 and the lower die 22.

[0019] FIG. 2A is a side view of the pressing assembly at an initial position in accordance with one or more embodiments of the disclosure. In FIG. 2A, no force is applied to the handle 30, and the handle 30 is at an initial position. The first handle pin 55 is at or near back ends of the first pair of frame slots 13. The second handle pin 51 is at or near top ends of the second pair of frame slots 14. The roller body pin 53 is at or near top ends of the third pair of frame slots 15 and at a first mid position near back ends of the roller body slots 46. The handle 30 is currently not in contact with the roller body pin 53.

[0020] FIG. 2B is a side view of the pressing assembly at an intermediate position in accordance with one or more embodiments of the disclosure. In FIG. 2B, a force P1 is applied to the handle 30, and the handle 30 pivots to an intermediate position. The handle 30 is now in contact with the roller body pin 53. The first handle pin 55 is at or near mid positions in the first pair of frame slots 13. The second handle pin 51 is at or near mid positions in the second pair of frame slots 14. The roller body pin 53 is still at or near the top ends of the third pair of frame slots 15 and at the first mid position of the roller body slots 46. The roller body 40 drives the roller 43 to press down on the upper die 21 so that the upper die 21 moves toward the lower die 22.

[0021] FIG. 2C is a side view of the pressing assembly at a final position in accordance with one or more embodiments of the disclosure. In FIG. 2C, the force P1 continues to apply to the handle 30, and the handle 30 pivots to a final position. The handle 30 maintains contact with the roller body pin 53. The first handle pin 55 is at or near front ends of the first pair of frame slots 13. The second handle pin 51 is near bottom ends of the second pair of frame slots 14. The roller body pin 53 is near bottom ends of the third pair of frame slots 15. The roller body pin 53 is also at a second mid position near front ends of the roller body slots 46, where the second mid position is closer to the front end of the roller body slots 46 than the first mid position. The upper die 21 is now

pressed against the lower die 22. When the force P1 is released, the first and second handle pins 55, 51 and the roller body pin 53 all return to their initial positions set forth above and shown in FIG. 2A.

[0022] Referring to FIGs. 2A, 2B, and 2C, the first handle pin 55 moves from the back ends of the first pair of frame slots 13 to the front ends of the first pair of frame slots 13, the second handle pin 51 moves from the top ends of the second pair of frame slots 14 to the bottom ends of the second pair of frame slots 14, and the roller body pin 53 moves from the top ends of the third pair of frame slots 15 to a position near the bottom ends of the third pair of frame slots 15. The movements of the first handle pin 55, the second handle pin 51, and the roller body pin 53 drives the roller body 40 to move forward and downward to press the upper die 21.

[0023] The arrangement of the first and second handle pins 55, 51 and the roller body pin 53 requires less force to be applied to the handle 30 to make a three-dimensional image or design on a material between the upper die 21 and the lower die 22.

Claims

1. A pressing assembly of an embossing seal, the pressing assembly comprising:

a frame (10) comprising two parallel sides (101, 103);
 a roller body (40) including a roller (43) to be in contact with a die (20);
 a handle (30) pivotally coupled to the frame (10) and linked to a first end of the roller body (40); and
 a first handle pin (55) pivotally coupling an end of the handle (30) to the sides (101, 103) of the frame (10); the pressing assembly of an embossing seal being **characterized in** further comprising:

a second handle pin (51) coupling the first end of the roller body (40) to the sides (101, 103) of the frame (10) along a first path; and a roller body pin (53) coupling a second end of the roller body (40) to the sides (101, 103) of the frame (10) along a second path.

2. The pressing assembly of claim 1, wherein the second handle pin (51) pivotally couples the handle (30) to the first end of the roller body (40).
3. The pressing assembly of claim 2, wherein the second handle pin (51) is movable along a second pair of frame slots (14) defined by the two sides (101, 103) of the frame (10).
4. The pressing assembly of claim 3, wherein the roller

body pin (53) is movable along a pair of roller body slots (46) defined by the roller body (40).

5. The pressing assembly of claim 4, wherein the roller body pin (53) is further movable along a third pair of frame slots (15) defined by the two sides (101, 103) of the frame (10).
6. The pressing assembly of claim 5, wherein each of the second pair of frame slots (14) is linear and diagonal; each of the roller body slots (46) is linear and horizontal, and two ends of each roller body slot (46) respectively extend toward the first end and the second end of the roller body (40); and each of the third pair of frame slots (15) is curved and diagonal.
7. The pressing assembly of claim 2, wherein the handle (30) is not in contact with the roller body pin (53) when the handle (30) is at a first position.
8. The pressing assembly of claim 7, wherein the handle (30) contacts the roller body pin (53) when the handle (30) is at a second position.
9. The pressing assembly of claim 1, wherein a first pin-in-slot joint is defined between the handle (30) and the first handle pin (55), and is movable along a first pair of frame slots (13) defined by the two sides (101, 103) of the frame (10).
10. The pressing assembly of claim 9, wherein a second pin-in-slot joint is defined between the roller body (40) and the frame (10) and is movable along a second pair of frame slots (14) defined by the two sides (101, 103) of the frame (10), and a pin joint between a front end of the handle (30) and a front end of the roller body (40) and the second pin-in-slot joint share a second handle pin (51).
11. The pressing assembly of claim 10, wherein a third pin-in-slot joint is defined between the roller body (40) and the frame (10) and is movable along a pair of roller body slots (46) defined by the roller body (40).
12. The pressing assembly of claim 11, wherein the third pin-in-slot joint is further movable along a third pair of frame slots (15) defined by the two sides (101, 103) of the frame (10).
13. The pressing assembly of claim 12, wherein each of the first pair of frame slots (13) is linear and horizontal, and two ends of each frame slot (13) respectively extend toward a front end and a back end of the frame (10); each of the second pair of frame slots (14) is linear

- and diagonal;
each of the pair of roller body slots (46) is linear and horizontal; and
each of the third pair of frame slots (15) is curved and diagonal.
14. The pressing assembly of claim 1, wherein the handle (30) is not in contact with the roller body pin (53) from a third pin-in-slot joint defined between the roller body (40) and the frame (10) when the handle (30) is at a first position.
15. The pressing assembly of claim 1, wherein the handle (30) contacts the roller body pin (53) from a third pin-in-slot joint defined between the roller body (40) and the frame (10) when the handle (30) is at a second position.
- Patentansprüche**
1. Press-Baugruppe einer Prägepresse, wobei die Press-Baugruppe umfasst:
- einen Rahmen (10), umfassend zwei parallele Seiten (101, 103);
einen Walzkörper (40), der eine Walze (43) enthält, um in Kontakt mit einer Prägeeinheit (20) zu treten;
einen Griff (30), der schwenkbar an dem Rahmen (10) gekoppelt und mit einem ersten Ende des Walzkörpers (40) verbunden ist; und
einen ersten Griffstift (55), der ein Ende des Griffes (30) mit den Seiten (101, 103) des Rahmens (10) schwenkbar koppelt; wobei die Press-Baugruppe einer Prägepresse **dadurch gekennzeichnet ist, dass** sie weiterhin umfasst:
- einen zweiten Griffstift (51), der das erste Ende des Walzkörpers (40) mit den Seiten (101, 103) des Rahmens (10) entlang eines ersten Pfads koppelt; und
einen Walzkörperstift (53), der ein zweites Ende des Walzkörpers (40) mit den Seiten (101, 103) des Rahmens (10) entlang eines zweiten Pfads koppelt.
2. Press-Baugruppe gemäß Anspruch 1, wobei der zweite Griffstift (51) den Griff (30) mit dem ersten Ende des Walzkörpers (40) schwenkbar koppelt.
3. Press-Baugruppe gemäß Anspruch 2, wobei der zweite Griffstift (51) entlang eines zweiten Paars von Rahmenschlitten (14) bewegt werden kann, die durch die zwei Seiten (101, 103) des Rahmens (10) definiert sind.
4. Press-Baugruppe gemäß Anspruch 3, wobei der Walzkörperstift (53) entlang eines Paars von Walzkörperschlitten (46) bewegt werden kann, die durch den Walzkörper (40) definiert sind.
5. Press-Baugruppe gemäß Anspruch 4, wobei der Walzkörperstift (53) weiterhin entlang eines dritten Paars von Rahmenschlitten (15) bewegt werden kann, die durch die zwei Seiten (101, 103) des Rahmens (10) definiert sind.
6. Press-Baugruppe gemäß Anspruch 5, wobei jeder der Rahmenschlitten (14) des zweiten Paars linear und diagonal ist; wobei jeder der Walzkörperschlitten (46) linear und horizontal ist und wobei sich zwei Enden jedes Walzkörperschlittens (46) jeweils in Richtung des ersten und des zweiten Endes des Walzkörpers (40) erstrecken; und wobei jeder der Rahmenschlitten (15) des dritten Paars gekrümmt und diagonal ist.
7. Press-Baugruppe gemäß Anspruch 2, wobei der Griff (30) nicht in Kontakt mit dem Walzkörperstift (53) steht, wenn sich der Griff (30) an einer ersten Position befindet.
8. Press-Baugruppe gemäß Anspruch 7, wobei der Griff (30) den Walzkörperstift (53) berührt, wenn sich der Griff (30) an einer zweiten Position befindet.
9. Press-Baugruppe gemäß Anspruch 1, wobei ein erster Stift-in-Schlitz-Verbindungsstück zwischen dem Griff (30) und dem ersten Griffstift (55) definiert ist und entlang eines ersten Paars von Rahmenschlitten (13) bewegt werden kann, die durch die zwei Seiten (101, 103) des Rahmens (10) definiert sind.
10. Press-Baugruppe gemäß Anspruch 9, wobei ein zweites Stift-in-Schlitz-Verbindungsstück zwischen dem Walzkörper (40) und dem Rahmen (10) definiert ist und entlang eines zweiten Paars von Rahmenschlitten (14) bewegt werden kann, die durch die zwei Seiten (101, 103) des Rahmens (10) definiert sind und wobei sich ein Stiftverbindungsstück zwischen einem Vorderende des Griffes (30) und einem Vorderende des Walzkörpers (40) und das zweite Stift-in-Schlitz-Verbindungsstück einen zweiten Griffstift (51) teilen.
11. Press-Baugruppe gemäß Anspruch 10, wobei ein drittes Stift-in-Schlitz-Verbindungsstück zwischen dem Walzkörper (40) und dem Rahmen (10) definiert ist und entlang eines Paars von Walzkörperschlitten (46) bewegt werden kann, die durch den Walzkörper (40) definiert sind.
12. Press-Baugruppe gemäß Anspruch 11, wobei das dritte Stift-in-Schlitz-Verbindungsstück weiterhin

- entlang eines dritten Paars von Rahmenschlitzten (15) bewegt werden kann, die durch die zwei Seiten (101, 103) des Rahmens (10) definiert sind.
- 13.** Press-Baugruppe gemäß Anspruch 12, wobei jeder der Rahmenschlitzte (13) des ersten Paars linear und diagonal ist; und sich zwei Enden jedes Rahmenschlitztes (13) jeweils in Richtung eines Vorderendes und eines Hinterendes des Rahmens (10) erstrecken; wobei jeder der Rahmenschlitzte (14) des zweiten Paars linear und diagonal ist; wobei jeder des Paars von Walzkörperschlitzten (46) linear und horizontal ist; und jeder der Rahmenschlitzte (15) des dritten Paars gekrümmmt und diagonal ist.
- 14.** Press-Baugruppe gemäß Anspruch 1, wobei der Griff (30) nicht in Kontakt mit dem Walzkörperstift (53) von einem dritten Stift-in-Schlitz-Verbindungsstück steht, das zwischen dem Walzkörper (40) und dem Rahmen (10) definiert ist, wenn sich der Griff (30) an einer ersten Position befindet.
- 15.** Press-Baugruppe gemäß Anspruch 1, wobei der Griff (30) den Walzkörperstift (53) von einem dritten Stift-in-Schlitz-Verbindungsstück berührt, das zwischen dem Walzkörper (40) und dem Rahmen (10) definiert ist, wenn sich der Griff (30) an einer zweiten Position befindet.

Revendications

- Montage de presse d'un timbre d'embossage, le montage de presse comprenant :
un châssis (10) comprenant deux côtés parallèles (101, 103) ;
un corps de rouleau (40) comprenant un rouleau (43) destiné à être en contact avec un poinçon (20) ;
une poignée (30) couplée de façon pivotante au châssis (10) et reliée à une première extrémité du corps de rouleau (40) ; et
une première tige de poignée (55) couplant de façon pivotante une extrémité de la poignée (30) aux côtés (101, 103) du châssis (10) ; le montage de presse d'un timbre d'embossage étant caractérisé en ce qu'il comprend en outre :
une seconde tige de poignée (51) couplant la première extrémité du corps de rouleau (40) aux côtés (101, 103) du châssis (10) le long d'un premier trajet ; et
une tige de corps de rouleau (53) couplant une seconde extrémité du corps de rouleau (40) aux côtés (101, 103) du châssis (10) le long d'un second trajet.
- Montage de presse selon la revendication 1, dans lequel la seconde tige de poignée (51) couple la poignée (30) à la première extrémité du corps de rouleau (40) de façon pivotante.
- Montage de presse selon la revendication 2, dans lequel la seconde tige de poignée (51) est mobile le long d'une deuxième paire de fentes de châssis (14) définies par les deux côtés (101, 103) du châssis (10).
- Montage de presse selon la revendication 3, dans lequel la tige de corps de rouleau (53) est mobile le long d'une paire de fentes de corps de rouleau (46) définie par le corps de rouleau (40).
- Montage de presse selon la revendication 4, dans lequel la tige de corps de rouleau (53) est de plus mobile le long d'une troisième paire de fentes de châssis (15) définies par les deux côtés (101, 103) du châssis (10).
- Montage de presse selon la revendication 5, dans lequel chacune de la deuxième paire de fentes de châssis (14) est linéaire et diagonale ; chacune des fentes de corps de rouleau (46) est linéaire et horizontale, et les deux extrémités de chaque fente de corps de rouleau (46) s'étendent respectivement en direction de la première extrémité et de la seconde extrémité du corps de rouleau (40) ; et chacune de la troisième paire de fentes de châssis (15) est incurvée et diagonale.
- Montage de presse selon la revendication 2, dans lequel la poignée (30) n'est pas en contact avec la tige de corps de rouleau (53) lorsque la poignée (30) est sur une première position.
- Montage de presse selon la revendication 7, dans lequel la poignée (30) est en contact avec la tige de corps de rouleau (53) lorsque la poignée (30) est sur une seconde position.
- Montage de presse selon la revendication 1, dans lequel une première articulation tige-dans-fente est définie entre la poignée (30) et la première tige de poignée (55), et est mobile le long d'une première paire de fentes de châssis (13) définie par les deux côtés (101, 103) du châssis (10).
- Montage de presse selon la revendication 9, dans lequel une deuxième articulation tige-dans-fente est définie entre le corps de rouleau (40) et le châssis (10) et est mobile le long d'une seconde paire de fentes de châssis (14) définie par les deux côtés

(101, 103) du châssis (10), et une articulation à tige entre une extrémité avant de la poignée (30) et une extrémité avant du corps de rouleau (40) et la deuxième articulation tige-dans-fente partagent une seconde tige de poignée (51). 5

- 11.** Montage de presse selon la revendication 10, dans lequel une troisième articulation tige-dans-fente est définie entre le corps de rouleau (40) et le châssis (10) et est mobile le long d'une paire de fentes de corps de rouleau (46) définie par le corps de rouleau (40). 10
- 12.** Montage de presse selon la revendication 11, dans lequel la troisième articulation tige-dans-fente est mobile le long d'une troisième paire de fentes de châssis (15) définie par les deux côtés (101, 103) du châssis (10). 15
- 13.** Montage de presse selon la revendication 12, dans lequel chacune de la première paire de fentes de châssis (13) est linéaire et horizontale, et les deux extrémités de chaque fente de châssis (13) s'étendent respectivement en direction d'une extrémité avant et d'une extrémité arrière du châssis (10) ; 25
 chacune de la deuxième paire de fentes de châssis (14) est linéaire et diagonale ;
 chacune de la paire de fentes de corps de rouleau (46) est linéaire et horizontale ; et 30
 chacune de la troisième paire de fentes de châssis (15) est incurvée et diagonale.
- 14.** Montage de presse selon la revendication 1, dans lequel la poignée (30) n'est pas en contact avec la tige de corps de rouleau (53) depuis une troisième articulation tige-dans-fente définie entre le corps de rouleau (40) et le châssis (10) lorsque la poignée (30) est sur une première position. 35
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- 15.** Montage de presse selon la revendication 1, dans lequel la poignée (30) est en contact avec la tige de corps de rouleau (53) depuis une troisième articulation tige-dans-fente définie entre le corps de rouleau (40) et le châssis (10) lorsque la poignée (30) est sur une seconde position. 45

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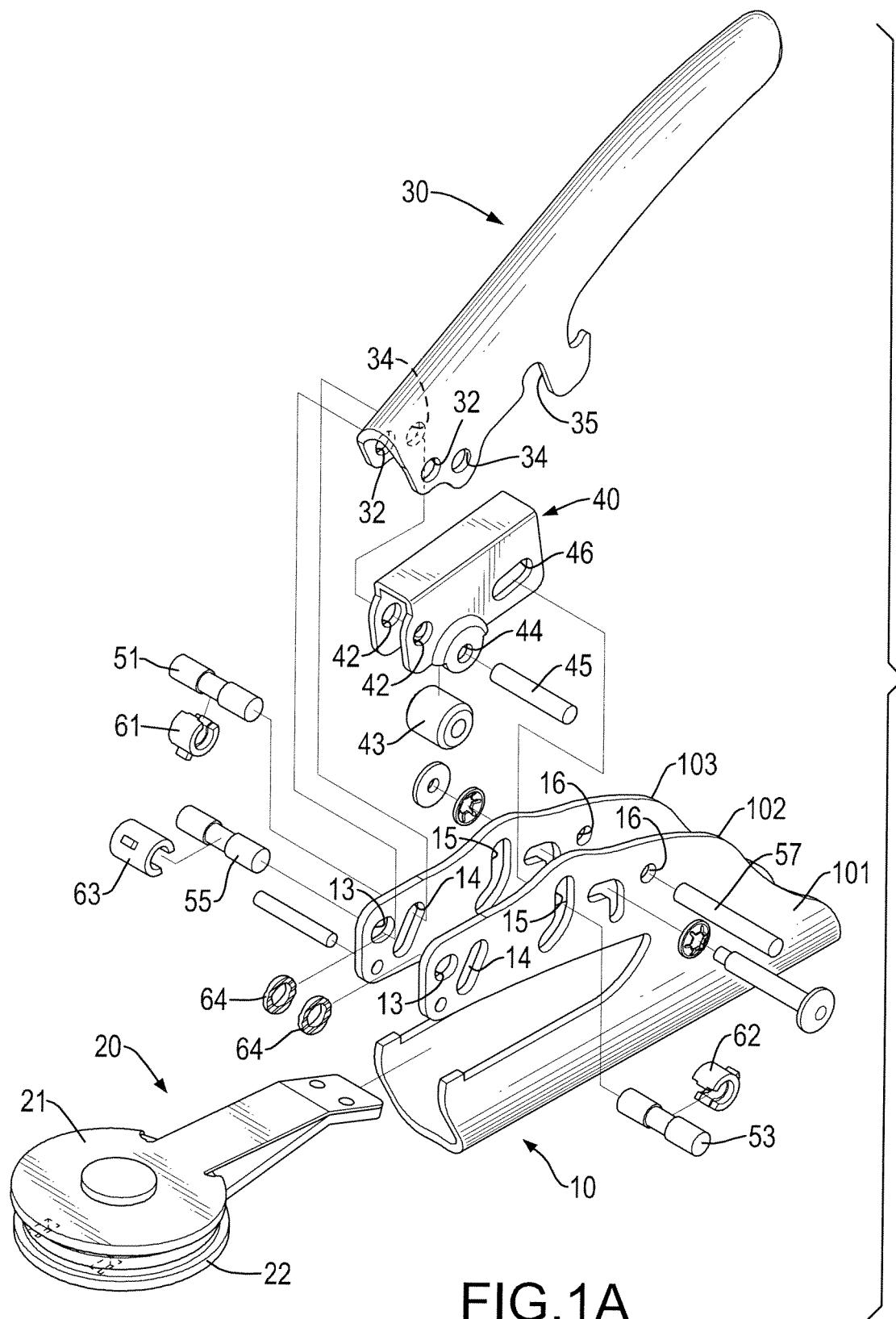


FIG.1A

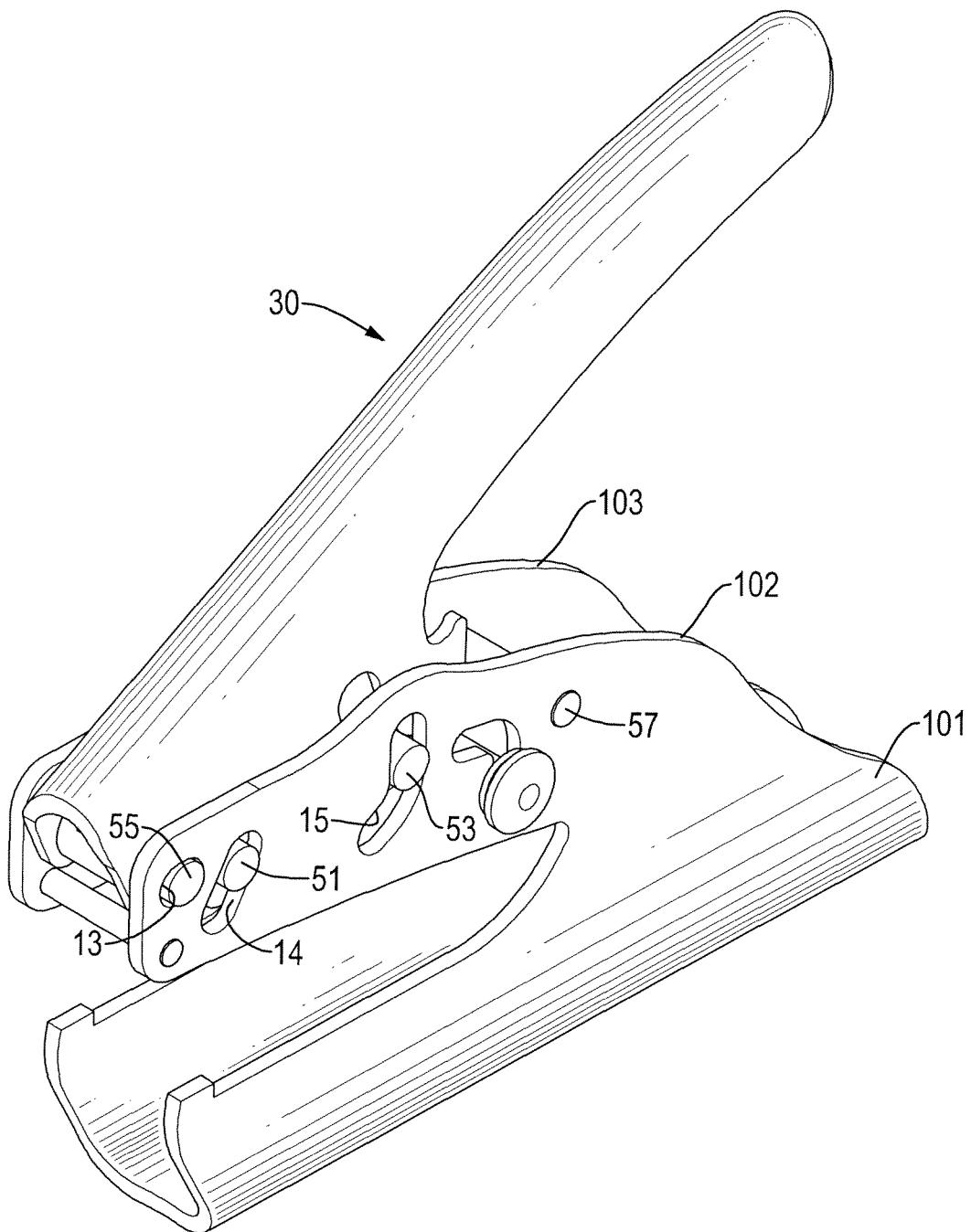


FIG.1B

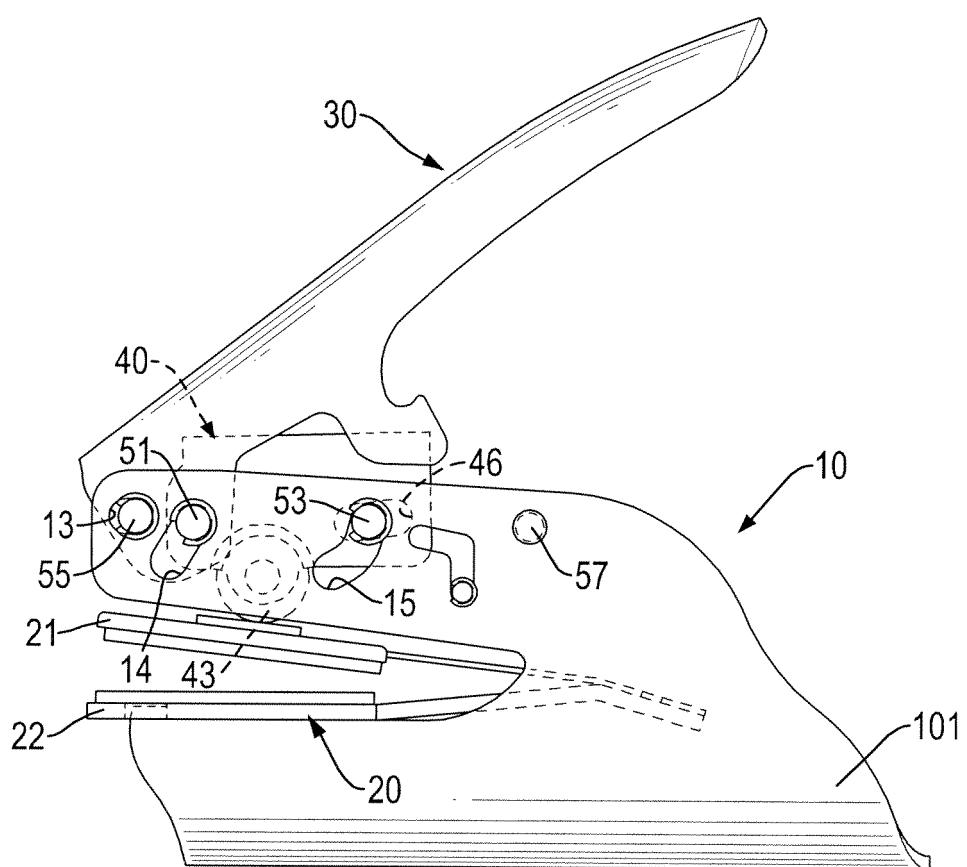


FIG.2A

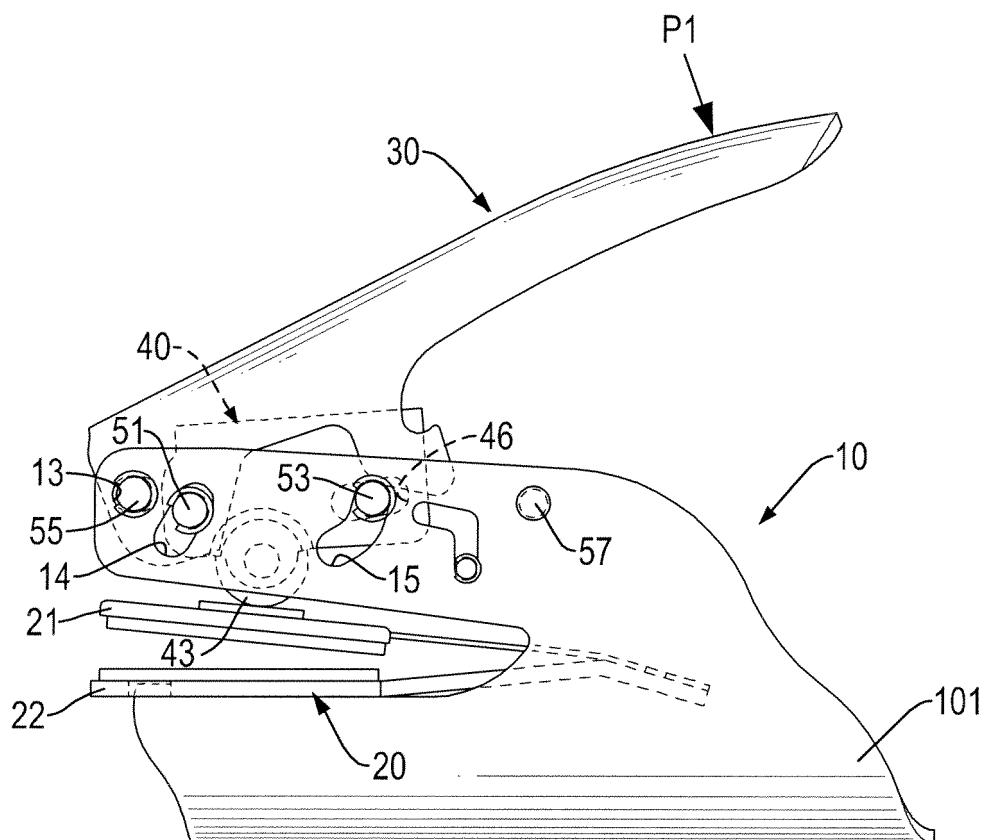


FIG.2B

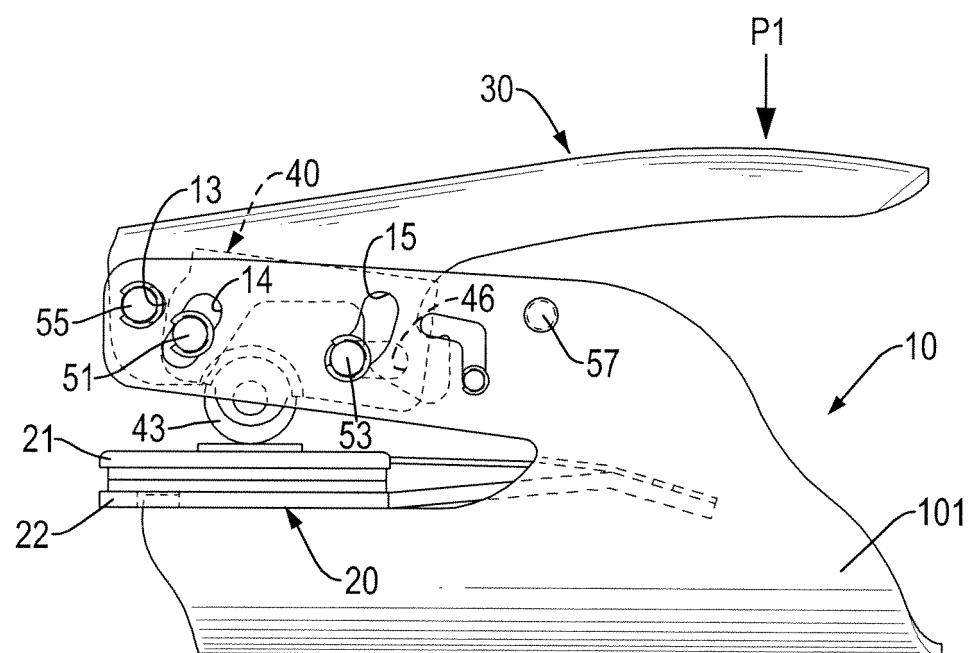


FIG.2C

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US 1471687 A [0003]